

CLAIMS

1. A communication interface device, comprising:
 - at least one wireless Internet packet (IP) transceiver;
 - at least one personal computer memory card interface architecture (PCMCIA) card electrically connected to the transceiver; and
 - at least one universal serial bus (USB) connector electrically connected to the transceiver.
2. The device of Claim 1, wherein the wireless transceiver operates in a frequency range of between two thousand three hundred million Hertz and two thousand three hundred ten million Hertz (2300mHz-2310mHz), inclusive.
3. The device of Claim 1, wherein the transceiver and PCMCIA card are integral with each other to establish a housing.
4. The device of Claim 3, wherein the USB connector is connected to the transceiver with a cord.
5. The device of Claim 4, wherein the USB connector is a first USB connector, and the device includes a second USB connector attached to the cord and detachably engageable with the housing.
6. The device of Claim 3, further comprising at least one light emitting diode (LED) mounted on the housing and operable at least to indicate whether the transceiver is communicating with a base station.
7. The device of Claim 6, further comprising at least one audio speaker on the housing.

8. The device of Claim 3, further comprising at least one battery included in the housing.

9. The device of Claim 8, further comprising at least one audio or visual indication of a low voltage condition of the battery.

10. The device of Claim 8, further comprising at least one charger port on the housing and electrically connected to the battery.

11. The device of Claim 3, further comprising at least one antenna supported on the housing and electrically connected to the transceiver.

12. The device of Claim 11, wherein the antenna is directional.

13. A wireless communication device for providing at least two communication interfaces, comprising:

at least one antenna;

at least a first computer communication interface component electrically associated with the antenna, the first computer communication interface component defining a first interface format; and

at least a second computer communication interface component electrically associated with the antenna, the second computer communication interface component defining a second interface format, wherein the device can be used to establish wireless communication between at least one user terminal and at least one base station using one of the interface formats.

14. The device of Claim 13, wherein the first interface format is a PCMCIA format and the second interface format is selected from the group of formats comprising: universal serial bus (USB) format, Bluetooth wireless format, and iLink format.

15. The device of Claim 13, wherein the first interface format is a PCMCIA format and the second interface format is a universal serial bus (USB) format.

16. The device of Claim 13, further comprising a wireless IP transceiver electrically connected to the antenna.

17. The device of Claim 16, wherein the wireless transceiver operates in a frequency range of between two thousand three hundred million Hertz and two thousand three hundred ten million Hertz (2300mHz-2310mHz), inclusive.

18. The device of Claim 16, wherein the second computer communication interface component includes at least one USB connector, and the USB connector is connected to the transceiver with a cord.

19. The device of Claim 18, wherein the USB connector is a first USB connector, and the device includes a second USB connector attached to the cord and detachably engageable with a housing supporting the transceiver.

20. The device of Claim 19, further comprising at least one light emitting diode (LED) mounted on the housing and operable at least to indicate whether the transceiver is communicating with a base station.

21. The device of Claim 20, further comprising at least one audio speaker on the housing.

22. The device of Claim 20, further comprising at least one battery included in the housing.

23. The device of Claim 22, further comprising at least one audio or visual indication of a low voltage condition of the battery.

24. The device of Claim 22, further comprising at least one charger port on the housing and electrically connected to the battery.

25. The device of Claim 13, wherein the antenna is directional.

26. A device for effecting wireless communication between a user terminal and at least one base station, comprising:

wireless transmitting means;

first communication interface means engageable with a user terminal for communicating IP data from the user terminal to the base station using the wireless transmitting means; and

second communication interface means attached to the first communication interface means and engageable with a user terminal for communicating IP data from the user terminal to the base station using the wireless transmitting means.

27. The device of Claim 26, wherein the first communication interface means is at least one PCMCIA card, the second communication interface means is at least one universal serial bus (USB) connector, and the wireless transmitting means is at least one wireless Internet packet (IP) transceiver.

28. The device of Claim 27, wherein the wireless transceiver operates in a frequency range of between two thousand three hundred million Hertz and two thousand three hundred ten million Hertz (2300mHz-2310mHz), inclusive.

29. The device of Claim 27, wherein the transceiver and PCMCIA card are housed integrally together to establish a housing.

30. The device of Claim 29, wherein the USB connector is connected to the transceiver with a cord.

31. The device of Claim 30, wherein the USB connector is a first USB connector, and the device includes a second USB connector attached to the cord and detachably engageable with the housing.

32. The device of Claim 31, further comprising at least one light emitting diode (LED) mounted on the housing and operable at least to indicate whether the transceiver is communicating with a base station.

33. The device of Claim 32, further comprising at least one audio speaker on the housing.

34. The device of Claim 29, further comprising at least one battery included in the housing.

35. The device of Claim 34, further comprising at least one audio or visual indication of a low voltage condition of the battery.

36. The device of Claim 34, further comprising at least one charger port on the housing and electrically connected to the battery.

37. The device of Claim 29, further comprising at least one antenna supported on the housing and electrically connected to the transceiver.

38. The device of Claim 37, wherein the antenna is directional.

39 40. The device of Claim 1, further comprising a base station communicating with the device.

40 41. The device of Claim 13, further comprising a base station communicating with the device.

41 42. The device of Claim 26, further comprising a base station communicating with the device.

43. A logic device usable by a user terminal for executing method acts comprising:

determining whether at least a first or second computer communication interface component is engaged with the terminal; and

if a computer communication interface component is engaged with the terminal:

determining whether the first computer communication interface component is engaged with the terminal, and if so, invoking a device driver module associated with the first computer communication interface component, and otherwise invoking a device driver module associated with the second computer communication interface component.

44. The logic device of Claim 43, in combination with a communication device embodying the first and second computer communication interface components and a wireless IP transceiver.

45. The logic device of Claim 44, wherein the wireless transceiver operates in a frequency range of between two thousand three hundred million Hertz and two thousand three hundred ten million Hertz (2300mHz-2310mHz), inclusive.

46. The logic device of Claim 44, wherein the second computer communication interface component includes at least one USB connector, and the USB connector is connected to the transceiver with a cord.

47. The logic device of Claim 46, wherein the USB connector is a first USB connector, and the communication device includes a second USB connector attached to the cord and detachably engageable with a housing supporting the transceiver.

48. The logic device of Claim 47, further comprising at least one light emitting diode (LED) mounted on the housing and operable at least to indicate whether the transceiver is communicating with a base station.

49. The logic device of Claim 48, further comprising at least one audio speaker on the housing.

50. The logic device of Claim 49, further comprising at least one battery included in the housing.

51. The logic device of Claim 50, further comprising at least one audio or visual indication of a low voltage condition of the battery.

52. The device of Claim 1, wherein the wireless transceiver operates in a frequency range of between nine kiloHertz and fifty gigaHertz (9kHz-50GHz), inclusive.

53. The device of Claim 16, wherein the wireless transceiver operates in a frequency range of between nine kiloHertz and fifty gigaHertz (9kHz-50GHz), inclusive.

54. The device of Claim 27, wherein the wireless transceiver operates in a frequency range of between nine kiloHertz and fifty gigaHertz (9kHz-50GHz), inclusive.

55. The logic device of Claim 44, wherein the wireless transceiver operates in a frequency range of between nine kiloHertz and fifty gigaHertz (9kHz-50GHz), inclusive.